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| **SOI 2013**  **Grades 6-9** | | | | | |
| **DAY** | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| **THEME** | **ENGINEERING** | **ROBOTICS** | **FUTURE FLIGHT DESIGN PBL PART I** | **FUTURE FLIGHT DESIGN PBL PART II** | **ROCKETRY** |
| **TIME**  **8:00- 9:00** | Teacher Plan and  Set Up | Teacher Plan and  Set Up | Teacher Plan and  Set Up | Teacher Plan and  Set Up | Teacher Plan and  Set Up |
| **9:00- 9:30** | Pre-Test and Survey | Command and Control | Part I: Day 1 Procedure | Part II: Days 2-4  Generate Ideas | How Rockets Work & 3rd Law of Motion |
| **9:30- 10:00** |
| **10:00- 10:30** | Intro to BEST Design Process | Robotics Hands Down—End Effectors | Part I: Day 2 Find Answers | Advanced High Power Paper Rockets |
| **10:30- 11:00** | Heavy Lifter: Crane |
| **11:00- 11:30** | Part I: Day 3  Solutions | Part II: Day 5  Select Solution |
| **11:30- 12:30** | Lunch and Discussion | Lunch and Discussion | Lunch and Discussion | Lunch and Discussion | Lunch and Discussion |
| **12:30- 1:00** | Design a Satellite to Orbit the Moon | Moon Rovers | Part I: Day 3 Create  Presentation | Part II: Day 5  Test/Refine Solution | Post Test |
| **1:00- 1:30** | Part I: Day 4 Present Results |
| **1:30- 2:00** | Brush Bot Battles | Part II: Days 6-7  Present Results | Altitude Tracking |
| **2:00- 2:30** | Part II: Day 1 Define Problem |
| **2:30- 3:00** | Rocket Races/Launch |
| **3:00- 4:00** | Teacher Planning and Clean Up | Teacher Planning and Clean Up | Teacher Planning and Clean Up | Teacher Planning and Clean Up | Teacher Planning and Clean Up |